

Abstract

A computer system with parallel sever architecture comprises a common device driver unit for managing the I/O interface of at least one common device of the computer system; at least one application module unit runnable on the computer system and comprising hardware and software to perform certain function with the help of the common device in the common device driver unit; and a message exchange unit functioned as message interface of the common device driver unit and the application module unit. The common device driver unit is in same hierarchy as the application module unit. The communication between the common device driver unit and the application module unit is controlled by the message exchange unit rather than direct connection.